

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P458359

Luminaire Tested: **GALN-SA9D-730-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458359  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 65091 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

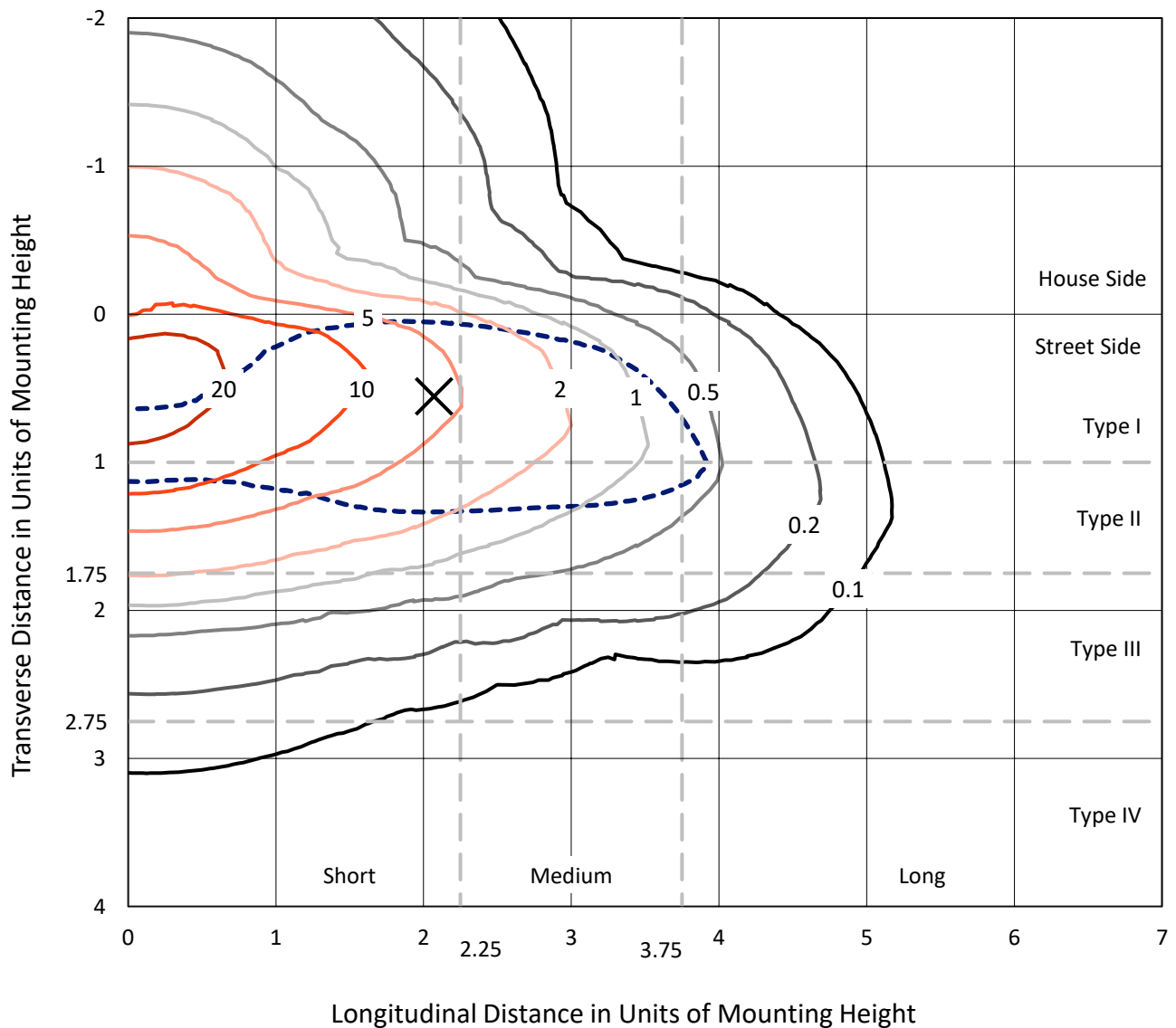
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

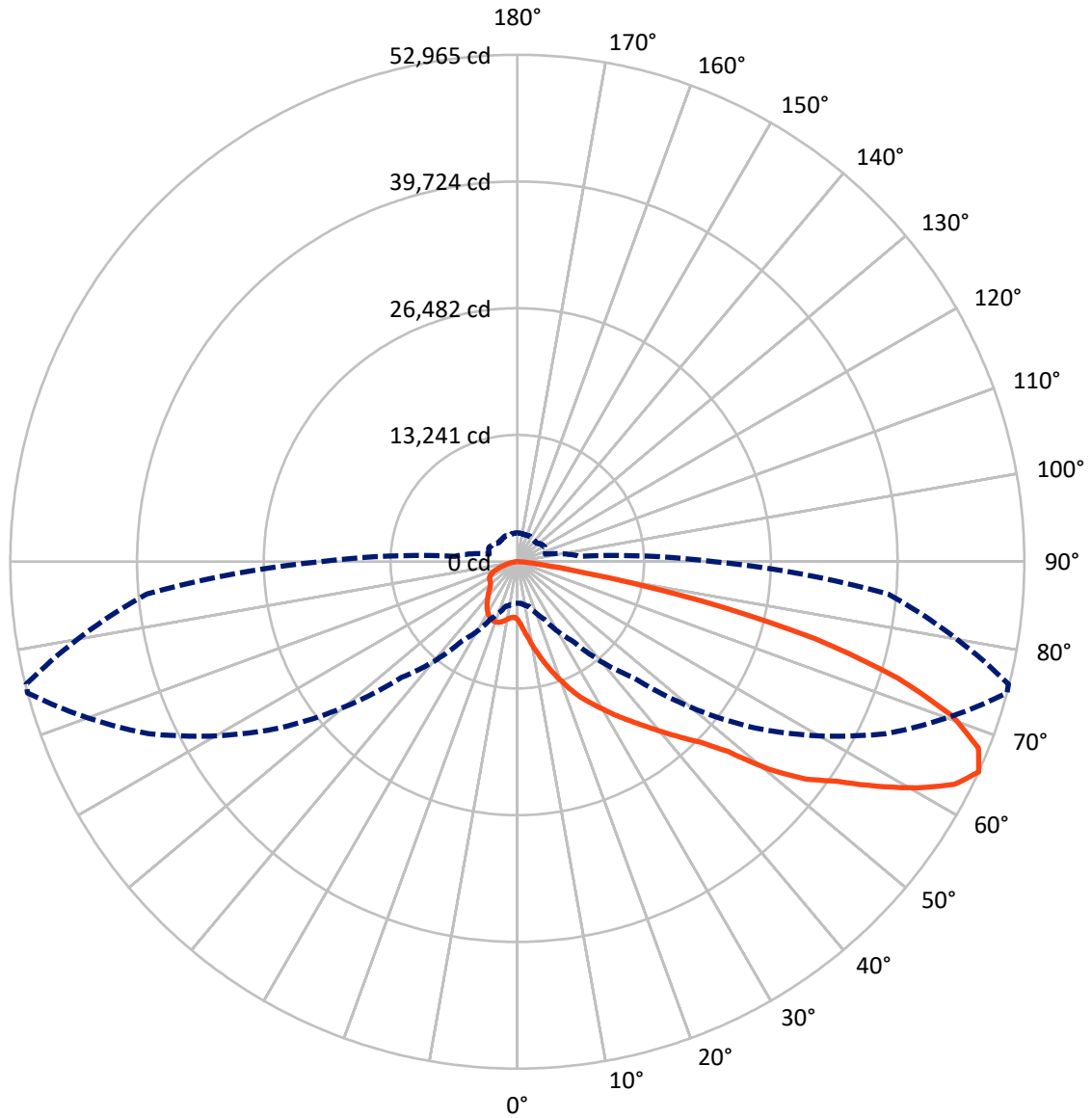
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10942.6	0.0	10942.6
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	54148.4	0.0	54148.4
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	65091.0	0.0	65091.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	734.8	1.1
10°-20°	2878.1	4.4
20°-30°	5559.4	8.5
30°-40°	9030.2	13.9
40°-50°	12421.9	19.1
50°-60°	14666.0	22.5
60°-70°	12849.8	19.7
70°-80°	6134.6	9.4
80°-90°	816.3	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	65091.0	100.0
0°-180°	65091.0	100.0



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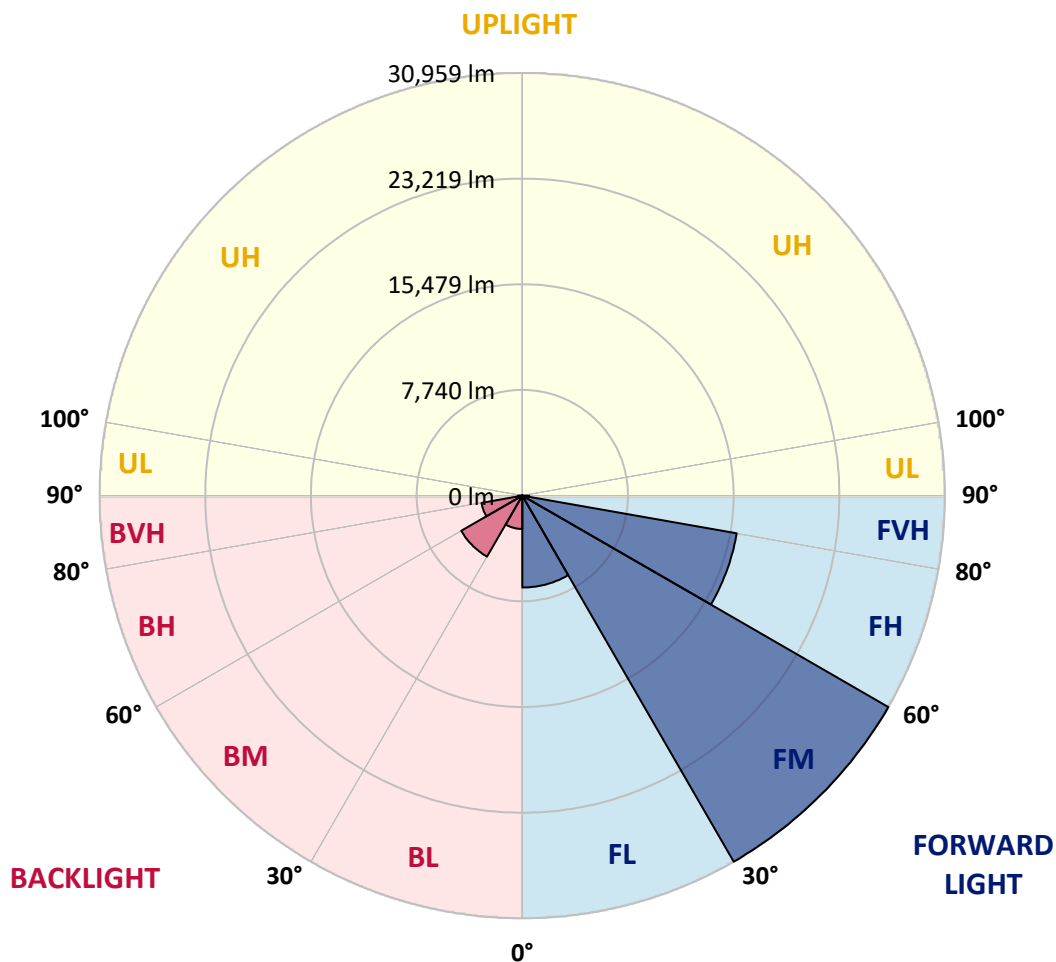
CATALOG NUMBER: GALN-SA9D-730-U-T2R

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6729.4	10.3			
FM	(30°-60°)	30958.7	47.6			
FH	(60°-80°)	15950.2	24.5			G5
FVH	(80°-90°)	510.1	0.8			G4/750
BL	(0°-30°)	2442.9	3.8	B3/2500		
BM	(30°-60°)	5159.4	7.9	B4/8500		
BH	(60°-80°)	3034.2	4.7	B4/5000		G4/5000
BVH	(80°-90°)	306.2	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8
2.5°	8035.5	7982.5	7926.0	7770.7	7604.7	7417.6	7149.3	6891.6	6549.1	6538.5	6284.3
5°	10263.2	10227.9	9977.2	9832.5	9447.7	8935.7	8501.5	7827.2	7202.3	7128.1	6633.8
7.5°	12310.9	12173.2	12077.9	11816.6	11435.3	10778.7	9938.4	9027.5	7982.5	7883.6	7064.6
10°	13853.7	13839.6	13790.2	13564.2	13278.3	12625.1	11693.1	10386.8	8971.0	8776.9	7587.1
12.5°	15008.2	15018.8	15011.8	15008.2	14803.5	14249.2	13239.4	11862.5	9970.2	9832.5	8190.8
15°	15767.3	15873.2	15915.6	16092.1	16109.8	15739.0	14870.5	13288.9	11096.4	10891.6	8840.4
17.5°	16268.6	16321.6	16519.3	16819.4	17063.0	16995.9	16222.7	14609.3	12247.4	11904.9	9514.7
20°	16748.8	16840.6	16992.4	17401.9	17832.6	18030.4	17486.7	15961.5	13387.7	13168.8	10259.7
22.5°	17747.9	17878.5	17931.5	18139.8	18507.0	18856.5	18609.4	17257.2	14637.5	14341.0	11050.5
25°	19439.0	19576.7	19428.4	19379.0	19499.0	19672.0	19619.1	18478.7	15816.7	15393.1	11799.0
27.5°	21642.1	21659.7	21370.2	21094.8	20798.3	20710.0	20547.6	19562.6	16840.6	16487.5	12551.0
30°	24007.5	23922.8	23442.6	22944.8	22443.5	21949.2	21483.2	20607.6	17980.9	17574.9	13288.9
32.5°	26203.5	26157.6	25624.5	24851.3	24004.0	23538.0	22595.3	21663.3	19202.5	18810.6	14047.9
35°	27848.7	27915.8	27329.7	26485.9	25560.9	25147.9	23958.1	22771.8	20466.4	20039.2	14874.1
37.5°	29017.3	28982.0	28463.0	27732.2	26920.2	26560.1	25550.4	23982.8	21825.7	21416.1	15777.9
40°	29433.9	29412.7	29027.9	28494.8	27979.3	27852.3	27216.8	25289.1	23382.6	22902.5	16865.3
42.5°	29169.1	29215.0	28960.8	28816.1	28720.8	28812.6	28872.6	27001.4	25080.8	24639.5	18044.5
45°	28357.1	28332.4	28297.1	28533.6	29070.3	29674.0	30510.7	28618.4	26927.3	26574.2	19626.1
47.5°	26906.1	27082.6	27170.9	27824.0	28996.1	30426.0	32396.0	30786.1	29606.9	29299.8	22037.5
50°	24876.0	25017.2	25539.8	26701.3	28448.9	30708.4	34239.0	34330.7	34076.6	33501.1	24657.1
52.5°	21705.6	21924.5	23001.3	25130.2	27326.2	30591.9	35354.6	37370.5	37705.9	37275.2	27237.9
55°	18157.5	18464.6	19601.4	22394.1	25779.8	29956.4	36124.3	39132.3	40470.3	40071.4	29723.4
57.5°	14683.4	15008.2	16176.8	18881.2	23082.5	28551.3	36629.1	41095.2	44233.9	43714.9	32816.2
60°	11004.6	11343.6	12346.2	15131.8	19241.3	25804.6	36286.7	42796.9	47993.9	47771.4	35912.4
62.5°	7099.9	7474.1	8346.1	10651.6	14789.3	22051.6	34454.3	43736.0	51249.0	50980.7	38172.0
65°	4324.9	4367.2	4847.4	6612.7	10122.0	17073.6	30263.6	42489.8	52964.8	52883.6	38860.4
67.5°	2796.2	2863.2	3082.1	3961.2	6069.0	11859.0	24198.2	38376.7	51962.2	51933.9	37437.6
70°	2361.9	2383.1	2482.0	2672.6	3527.0	7191.7	16992.4	31820.6	48152.7	48152.7	34016.5
72.5°	2111.2	2139.5	2174.8	2234.8	2517.3	4074.2	10139.6	24770.1	41575.4	41850.8	28953.8
75°	1917.1	1910.0	1931.2	1941.8	2146.6	2662.0	5242.8	18319.9	32163.0	31612.3	20967.7
77.5°	1641.7	1652.3	1641.7	1687.6	1895.9	2026.5	2662.0	12293.3	19492.0	18778.8	10524.5
80°	1348.7	1366.3	1384.0	1412.2	1620.5	1539.3	1599.3	5602.9	7209.3	7057.5	3251.6
82.5°	1013.3	1038.0	1066.2	1133.3	1274.5	1016.8	1009.7	2393.7	2602.0	2383.1	1196.8
85°	409.5	483.7	730.8	797.9	801.4	557.8	621.4	999.1	1062.7	1038.0	469.6
87.5°	95.3	113.0	236.5	356.6	328.3	208.3	229.5	324.8	370.7	342.5	158.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8	6047.8
2.5°	6167.8	6044.2	5832.4	5670.0	5553.5	5451.1	5387.6	5348.7	5334.6	5331.1	5334.6
5°	6376.1	6157.2	5821.8	5610.0	5493.5	5426.4	5387.6	5384.0	5387.6	5391.1	5380.5
7.5°	6662.1	6347.9	5910.1	5712.4	5624.1	5574.7	5557.0	5550.0	5553.5	5550.0	5550.0
10°	7043.4	6612.7	6083.1	5878.3	5804.2	5747.7	5719.4	5701.8	5687.7	5673.5	5666.5
12.5°	7463.5	6905.7	6270.2	6072.5	5966.6	5878.3	5814.8	5768.9	5737.1	5705.3	5698.3
15°	7933.1	7216.4	6478.5	6203.1	6051.3	5920.7	5811.2	5737.1	5680.6	5634.7	5631.2
17.5°	8381.4	7509.4	6619.7	6263.1	6040.7	5857.1	5712.4	5610.0	5539.4	5479.4	5472.3
20°	8861.6	7788.3	6683.3	6224.3	5934.8	5712.4	5521.7	5398.2	5317.0	5249.9	5239.3
22.5°	9345.3	8024.9	6676.2	6100.7	5751.2	5490.0	5288.7	5158.1	5062.8	4995.7	4971.0
25°	9807.8	8215.5	6587.9	5903.0	5497.0	5225.2	5020.4	4900.4	4815.6	4734.4	4734.4
27.5°	10224.4	8328.5	6422.0	5662.9	5235.8	4949.8	4787.4	4677.9	4600.3	4547.3	4515.5
30°	10633.9	8381.4	6196.1	5359.3	4960.4	4716.8	4586.1	4522.6	4452.0	4392.0	4384.9
32.5°	11001.1	8370.9	5913.6	5062.8	4699.1	4526.1	4473.2	4423.7	4349.6	4264.9	4243.7
35°	11357.7	8300.2	5578.2	4738.0	4480.2	4413.1	4427.3	4356.7	4222.5	4116.6	4098.9
37.5°	11746.0	8173.1	5211.0	4473.2	4296.6	4360.2	4395.5	4240.2	4021.3	3855.3	3816.5
40°	12194.4	8028.4	4829.7	4208.4	4151.9	4310.8	4310.8	4024.8	3724.7	3622.3	3594.1
42.5°	12720.5	7908.4	4512.0	3986.0	4031.9	4190.7	4173.1	3738.8	3615.2	3562.3	3548.2
45°	13553.7	7866.0	4183.7	3791.8	3933.0	4049.5	3904.8	3640.0	3569.4	3527.0	3512.9
47.5°	14870.5	7915.4	3894.2	3647.0	3820.0	3908.3	3604.7	3572.9	3523.5	3463.4	3456.4
50°	16092.1	7869.5	3689.4	3565.8	3721.2	3738.8	3481.1	3491.7	3463.4	3396.4	3382.2
52.5°	17091.2	7724.8	3558.8	3523.5	3636.4	3442.3	3364.6	3403.4	3392.8	3308.1	3294.0
55°	18189.2	7636.5	3495.2	3523.5	3579.9	3184.5	3255.1	3311.6	3297.5	3237.5	3234.0
57.5°	19520.2	7654.2	3449.3	3534.0	3523.5	3053.9	3145.7	3212.8	3209.2	3191.6	3191.6
60°	20883.0	7661.2	3378.7	3530.5	3456.4	2951.5	3032.7	3128.0	3135.1	3145.7	3145.7
62.5°	21334.9	7354.1	3241.0	3467.0	3308.1	2852.7	2926.8	3057.4	3050.4	3078.6	3082.1
65°	20491.1	6503.2	3036.2	3322.2	3117.4	2782.0	2845.6	2965.6	2926.8	3000.9	3015.1
67.5°	18651.7	5380.5	2718.5	3061.0	2905.6	2707.9	2792.6	2838.5	2767.9	2912.7	2916.2
70°	16120.3	4201.3	2316.0	2690.3	2665.5	2630.2	2750.3	2679.7	2580.8	2757.3	2722.0
72.5°	13479.5	3209.2	1850.0	2199.5	2344.3	2513.7	2676.1	2474.9	2337.2	2390.2	2326.6
75°	10125.5	2372.5	1486.3	1722.9	1952.4	2347.8	2609.1	2227.8	2015.9	1966.5	1952.4
77.5°	5161.6	1549.9	1112.1	1288.6	1465.2	2121.8	2517.3	1938.3	1669.9	1592.3	1557.0
80°	1842.9	963.8	783.8	889.7	988.5	1825.3	2199.5	1602.9	1295.7	1281.6	1295.7
82.5°	854.4	621.4	526.0	582.5	586.1	1218.0	1677.0	1196.8	985.0	1496.9	1263.9
85°	367.2	310.7	296.6	289.5	268.3	543.7	942.6	642.6	1002.7	448.4	413.1
87.5°	109.4	123.6	109.4	81.2	60.0	60.0	95.3	35.3	24.7	17.7	17.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)